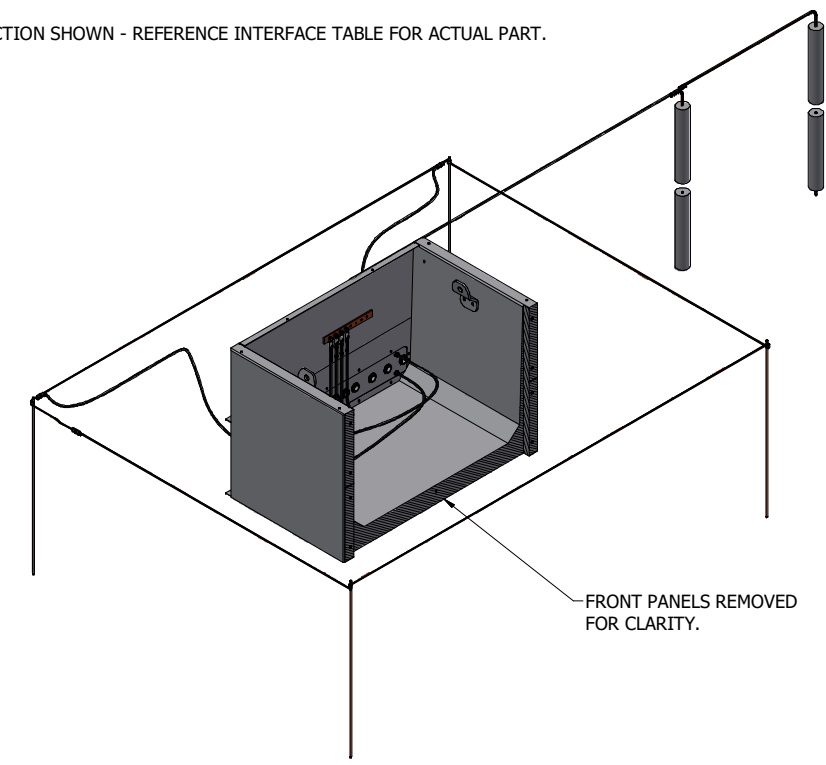


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.
2. THE BOND BETWEEN THE HV ELECTRODE AND THE SWITCHING STATION EARTH BAR SHALL BE COVERED COPPER CONDUCTOR.
3. EACH CABLE CONNECTION TO THE EARTH BAR SHALL BE MADE ON A SEPARATE M12 BOLT.
4. ALL EARTHING FASTENERS SHALL BE STAINLESS STEEL.
5. SEPARATION BETWEEN BURIED EARTHING AND NON-BONDED EQUIPMENT IS REQUIRED, SEPARATION DISTANCES TO BE SPECIFIED IN THE PARTICULAR DESIGN FOR THE SWITCHING STATION.
6. ADDITIONAL DEEP EARTH ELECTRODES MAY BE REQUIRED AS PER EARTHING DESIGN FOR A PARTICULAR SWITCHING STATION.
7. ALL EARTHING CABLES ENTERING THE SWITCHING STATION BASE MUST BE INSULATED (COVERED).
8. SITE EXCAVATION AND LOCATION OF GRADING RING DETAILS PROVIDED IN DRAWING D303-0004.
9. TWO CONNECTION POINTS ARE REQUIRED BETWEEN THE EARTH GRADING RING AND THE HV EARTH BAR IN CASE ONE CONNECTION FAILS.
10. GRADING RING TO BE INSTALLED 1000MM FROM EACH FACE OF THE SWITCHING STATION ENCLOSURE AT A DEPTH OF 300MM BELOW FINISHED GROUND LEVEL.
11. THE TWO THREADED INSERTS HIGHLIGHTED ARE CONNECTED THE REINFORCING BARS IN THE BASE AND ARE USED TO EARTH THE METAL SIDES OF THE BASE. IT IS ESSENTIAL THAT THE INCLUDED FASTENERS ARE INSTALLED AND TIGHTENED IN THESE INSERTS. THIS APPLIES TO THE INSERTS DIAGONALLY OPPOSITE ON THE BACK OF THE BASE.
12. ALL EARTH TAILS ENTERING THE SWITCHING STATION MUST BE LABELLED IN ACCORDANCE TO EVOENEGY EARTHING DESIGN AND CONSTRUCTION MANUAL - PO07127
13. EXCESS JOINTING COMPOUND MUST BE REMOVED FROM ALL EARTHING CONNECTIONS.
14. JOINTING COMPOUND APPLIED TO EARTHING CONNECTORS MUST BE REMOVED PRIOR TO INSTALLATION IF INSTALLING INTO AQUATIC ENVIROMENT.
15. TYPICAL CONNECTION SHOWN - REFERENCE INTERFACE TABLE FOR ACTUAL PART.



ITEM	UA TYPE	DESCRIPTION	STOCK CODE	QTY	DRAWING NO
1	P	EARTHING ROD, dia 13 x 1440mm, COPPER CLAD STEEL, EXTENDABLE, NO CLIP	1161222	4	D110-0001
2	P	CONDUCTOR, AERIAL, HDPC, 70mm ² , 19/2.14 (19/083)	1068830	15m	D102-0005
3	P	LUG, SHEAR-BOLT, 25-95mm ² , M13 BOLT HOLE, TINNED ALUMINIUM	1193219	5	D103-0022
4	P	CABLE, BUILDING, 70mm ² , 1C, 19/2.14, 0.6/1kV, V-75, BLACK, PVC INSULATED	1069603	AR	D102-0012
5	P	LABEL, EARTHING, GRADING RING FOR EARTHING CONDUCTORS, 90 x 10.5mm, S/STEEL	1202086	2	D107-0017
6	P	LABEL, EARTHING, HV DEEP ELECTRODE, FOR EARTHING CONDUCTORS, 90 x 10.5mm, S/STEEL	1202064	1	D107-0015
7	P	LABEL, EARTHING, PLINTH EARTH BOND, FOR EARTHING CONDUCTORS, 90 x 10.5mm, S/STEEL	1202163	1	D107-0024
8	P	CABLE TIE FOR EARTHING CONDUCTOR LABELS 4.6 x 200mm S/STEEL GR316	1202042	8	D107-0027
9	S	SA, EARTHING, DEEP EARTH ELECTRODE FOR STATIONS	-	1	D303-0006
10	S	SA, EARTHING, ADDITIONAL DEEP EARTH ELECTRODE FOR STATIONS	-	AR	D303-0013
11	I	INTERFACE, EARTHING PARTS, CONNECTIONS, CONNECTORS AND ACCESSORIES	SELECT	10	D199-0001

B	UPDATED AS PER UOM PROJECT	JJP	WNI	
C	IMAGE UPDATED TO IAC	JJP	WNI	5/02/2018
D	EARTHING CONNECTOR, BRANDING & NOTES AMENDED	NAA	WJC	19/02/2021
E	EARTH LABEL STOCK CODE UPDATE	JJP	WJC	17/11/2023
No.	DESCRIPTION	OKD	AUTH	DATE

evoenergy

Drawn:	M. Barrett
Designed:	J. Primmer
Checked:	S. Piyatilake 28/01/2020
Branch Engineer:	W. Cleland
Branch Manager:	
Old Drawing No. and Revision:	Rev

STANDARD CONSTRUCTION, DISTRIBUTION
UNDERGROUND, STATIONS,
SA, EARTHING,
SWITCHING STATION EARTHING

Scale:	1:20, 1:1	Date:	27/05/2014	Sheet No.:	1/1
Project No.:		Stock Code:			
Status:	Current				
AI	D303-0005				Rev